

# F2A-PNMNM

Base Product



## Product Classification

Product Type	Wireless transmission cable assembly
Product Brand	HELIAX®   SureFlex®
Product Series	FSJ2-50

## General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Straight
Interface, Connector A	N Male
Interface, Connector B	N Male
Specification Sheet Revision Level	A
Variable Length	For custom lengths, contact your local ANDREW representative

## Dimensions

Length	0 m   0 ft
Nominal Size	3/8 in

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.43	15.04

## Jumper Assembly Sample Label

# F2A-PNMNM



## Environmental Specifications

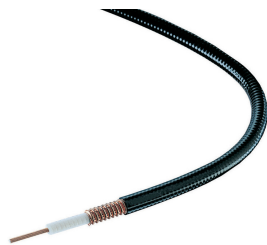
**Immersion Test Method** Meets IEC 60529:2001, IP68 in mated condition

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

## Included Products

35422-42	- Heat Treated FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket
FSJ1-50A	- FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket



Heat Treated FSJ2-50, HELIAX® Superflexible Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

Product Classification

Product Type	Coaxial wireless cable
Product Brand	HELIAX®   SureFlex®
Product Series	FSJ2-50

General Specifications

Flexibility	Superflexible
Jacket Color	Black
Performance Note	Attenuation values typical, guaranteed within 5%

Dimensions

Diameter Over Dielectric	7.112 mm   0.28 in
Diameter Over Jacket	10.541 mm   0.415 in
Inner Conductor OD	2.794 mm   0.11 in
Outer Conductor OD	9.652 mm   0.38 in
Nominal Size	3/8 in

Electrical Specifications

Cable Impedance	50 ohm ±1 ohm
Capacitance	79.7 pF/m   24.293 pF/ft
dc Resistance, Inner Conductor	4.232 ohms/km   1.29 ohms/kft
dc Resistance, Outer Conductor	4.987 ohms/km   1.52 ohms/kft
dc Test Voltage	2300 V
Inductance	0.2 µH/m   0.061 µH/ft
Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	4000 V
Operating Frequency Band	1 – 13400 MHz
Peak Power	13.2 kW

Velocity	83 %
Material Specifications	
Dielectric Material	Foam PE
Jacket Material	PE
Inner Conductor Material	Copper-clad aluminum wire
Outer Conductor Material	Corrugated copper

Mechanical Specifications

Minimum Bend Radius, multiple Bends	25.4 mm   1 in
Minimum Bend Radius, single Bend	25.4 mm   1 in
Number of Bends, minimum	20
Number of Bends, typical	50
Tensile Strength	95 kg   209.439 lb
Bending Moment	2.3 N-m   20.357 in lb
Flat Plate Crush Strength	1.8 kg/mm   100.795 lb/in

Environmental Specifications

Installation temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)
Attenuation, Ambient Temperature	68 °F   20 °C
Average Power, Ambient Temperature	104 °F   40 °C
Average Power, Inner Conductor Temperature	212 °F   100 °C

Packaging and Weights

Cable weight	0.12 kg/m   0.081 lb/ft
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Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

# FSJ1-50A



FSJ1-50A, HELIAX® Superflexible Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket

## Product Classification

Product Type	Coaxial wireless cable
Product Brand	HELIAX®   SureFlex®
Product Series	FSJ1-50A   MLOC

## General Specifications

Product Number	887009902/00   SZ887009902/00
Flexibility	Superflexible
Jacket Color	Black
Performance Note	Attenuation values typical, guaranteed within 5%

## Dimensions

Diameter Over Dielectric	4.826 mm   0.19 in
Diameter Over Jacket	7.366 mm   0.29 in
Inner Conductor OD	1.905 mm   0.075 in
Outer Conductor OD	6.35 mm   0.25 in
Nominal Size	1/4 in

## Electrical Specifications

Cable Impedance	50 ohm ±1 ohm
Capacitance	79.4 pF/m   24.201 pF/ft
dc Resistance, Inner Conductor	9.843 ohms/km   3 ohms/kft
dc Resistance, Outer Conductor	7.216 ohms/km   2.199 ohms/kft
dc Test Voltage	1600 V
Inductance	0.2 µH/m   0.061 µH/ft
Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	5000 V
Operating Frequency Band	1 – 18000 MHz

# FSJ1-50A

Peak Power	6.4 kW
Velocity	82 %

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.201	20.8
1700–2200 MHz	1.201	20.8
2200–2700 MHz	1.433	15

## Material Specifications

Dielectric Material	Foam PE
Jacket Material	PE
Inner Conductor Material	Copper-clad aluminum wire
Outer Conductor Material	Corrugated copper

## Mechanical Specifications

Minimum Bend Radius, multiple Bends	25.4 mm   1 in
Minimum Bend Radius, single Bend	25.4 mm   1 in
Number of Bends, minimum	15
Number of Bends, typical	20
Tensile Strength	68 kg   149.914 lb
Bending Moment	0.7 N-m   6.196 in lb
Flat Plate Crush Strength	1.8 kg/mm   100.795 lb/in

## Environmental Specifications

Installation temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)
Attenuation, Ambient Temperature	68 °F   20 °C
Average Power, Ambient Temperature	104 °F   40 °C
Average Power, Inner Conductor Temperature	212 °F   100 °C

## Packaging and Weights

Cable weight	0.07 kg/m   0.047 lb/ft
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# FSJ1-50A

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## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant
UL/ETL Certification	Compliant

